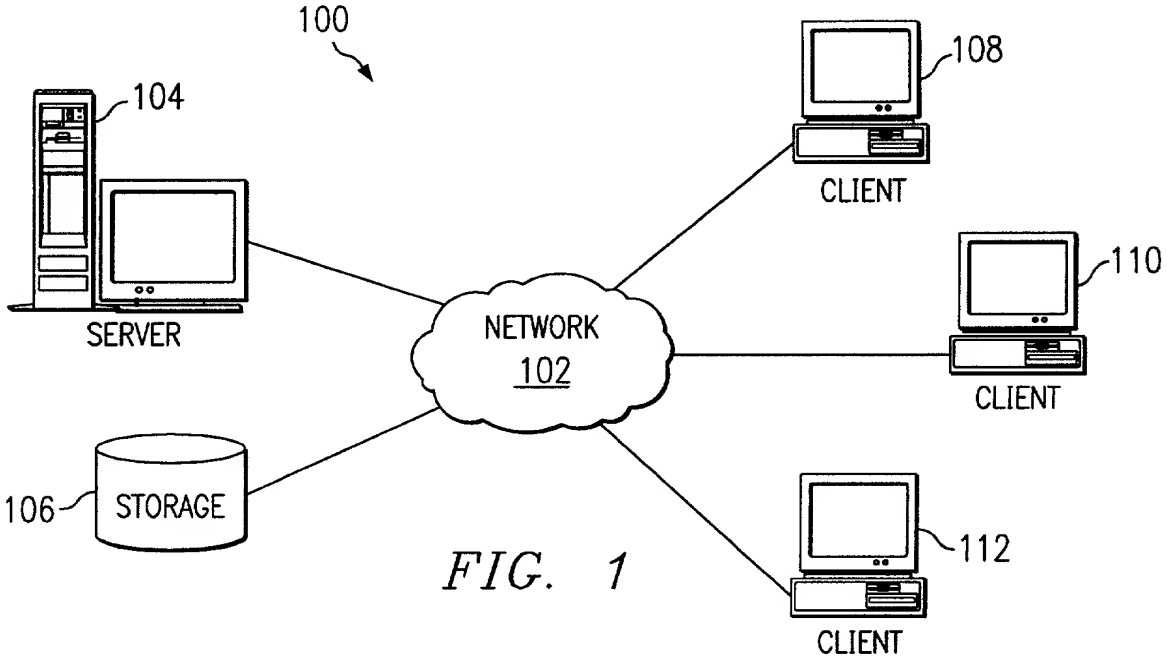


FIG. 1

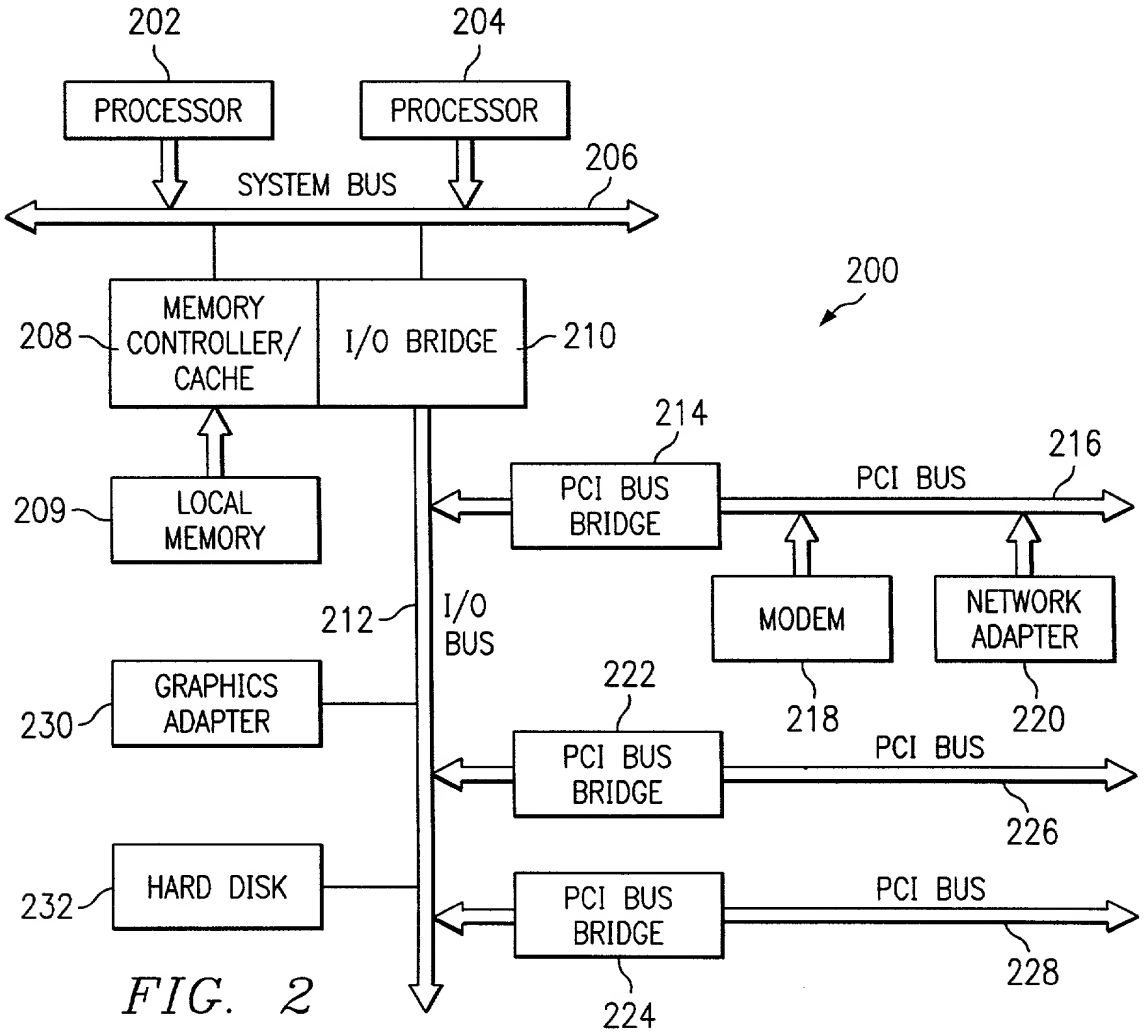


FIG. 2

20ET20 06256860

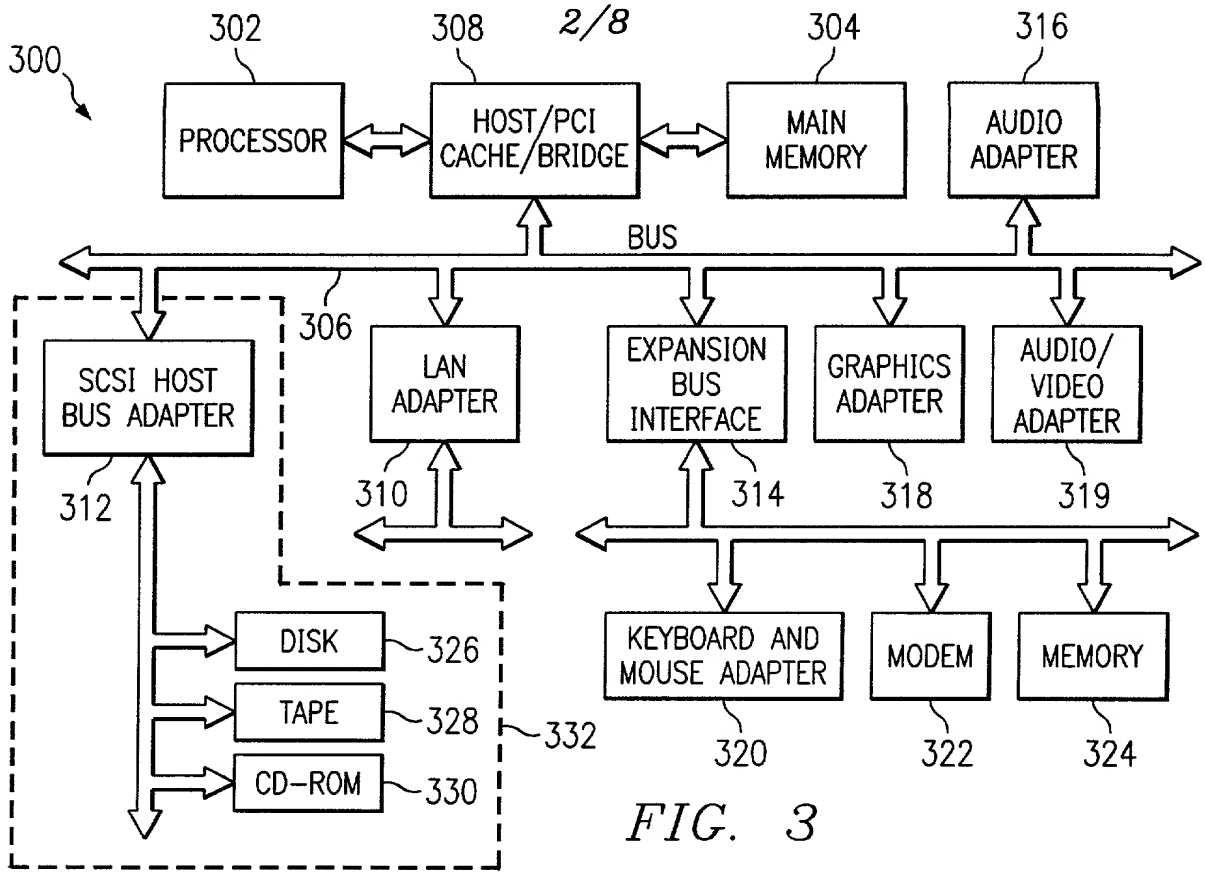


FIG. 3

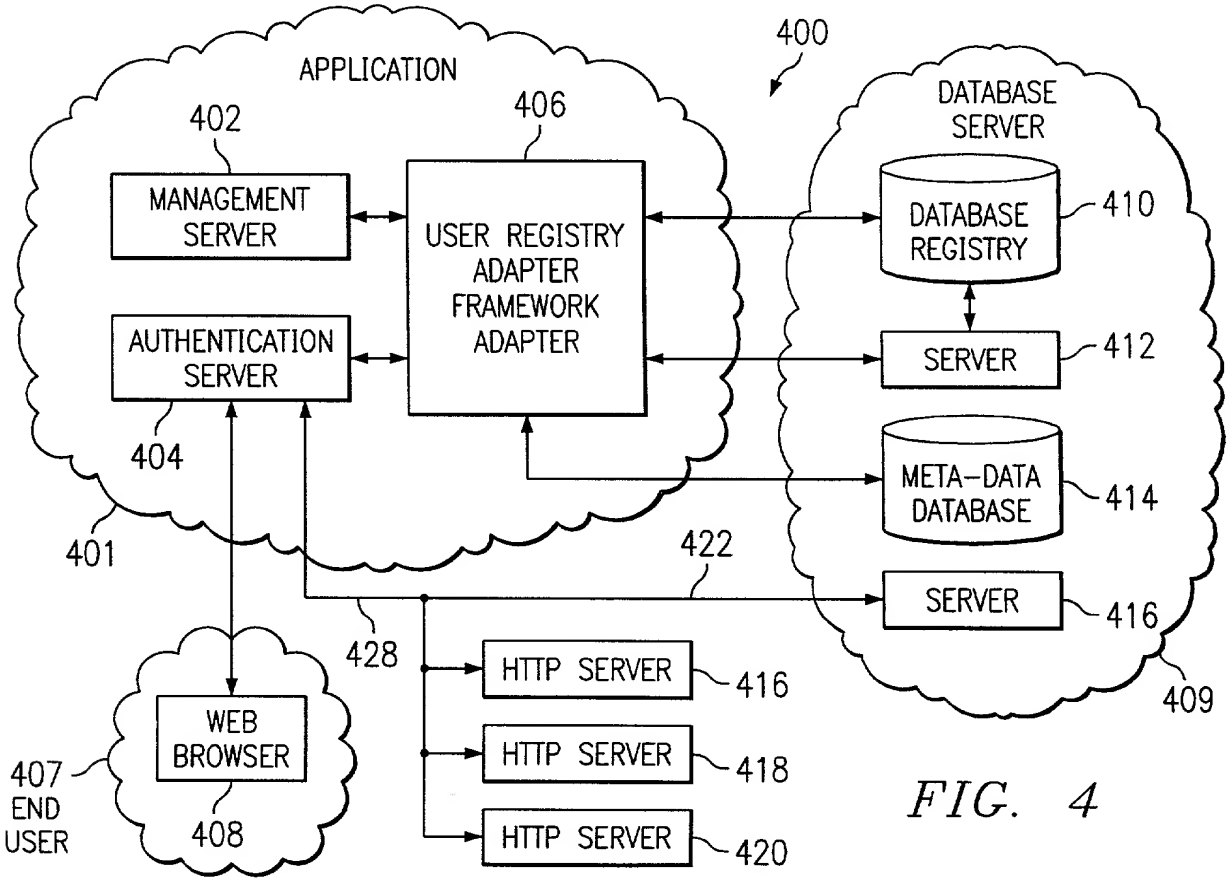


FIG. 4

20020720.0825660

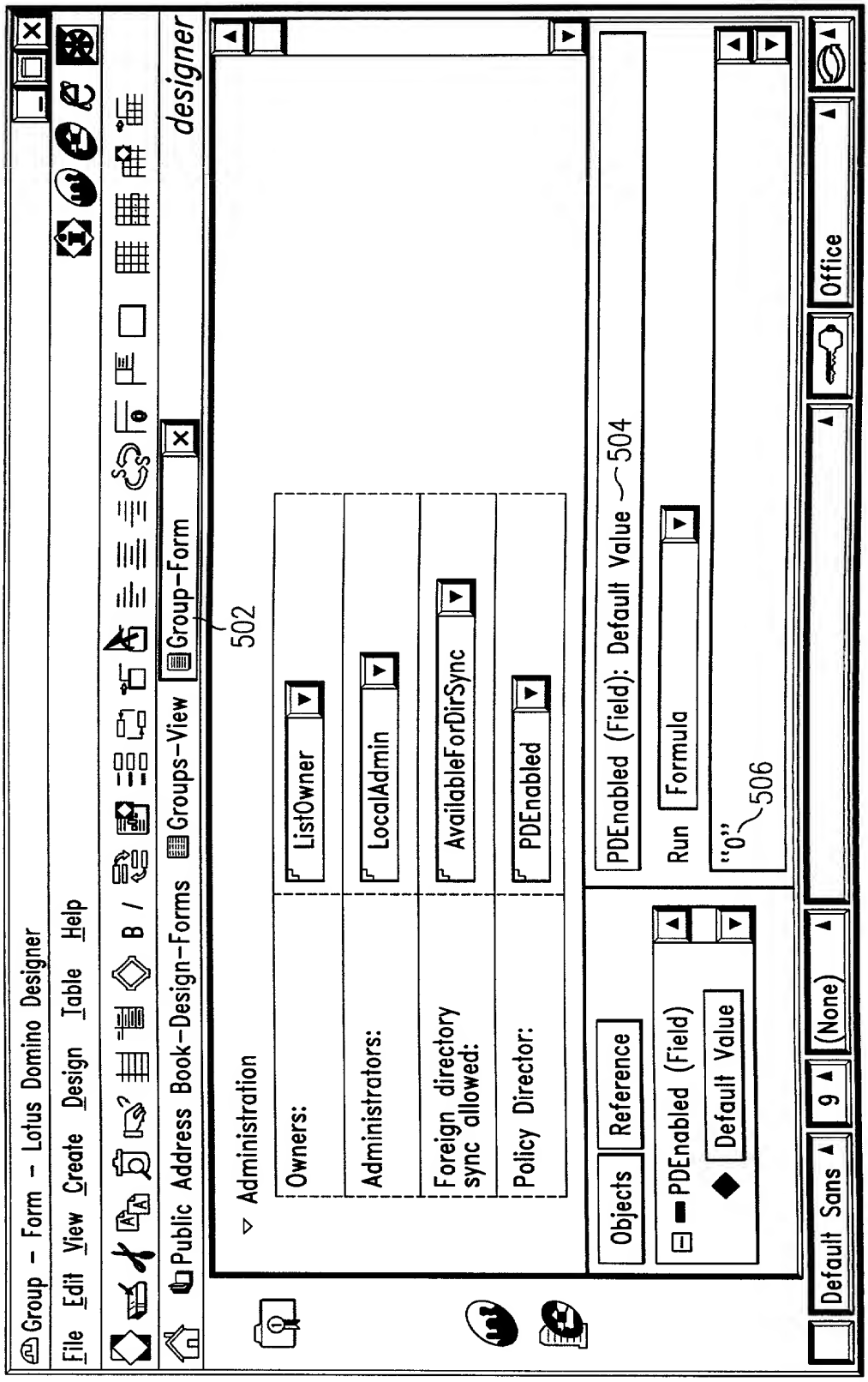

Group - Form - Lotus Domino Designer
File Edit View Create Design Table Help
Public Address Book-Design-Forms
Groups-View
Group-Form
designer
Administration
Owners:
ListOwner
Administrators:
LocalAdmin
Foreign directory sync allowed:
AvailableForDirSync
Policy Director:
PDEnabled
502
Objects
Reference
PDEnabled (Field)
Default Value
PDEnabled (Field): Default Value
504
Run
Formula
"0"
506
Default Sans
9
(None)
Office

FIG. 5

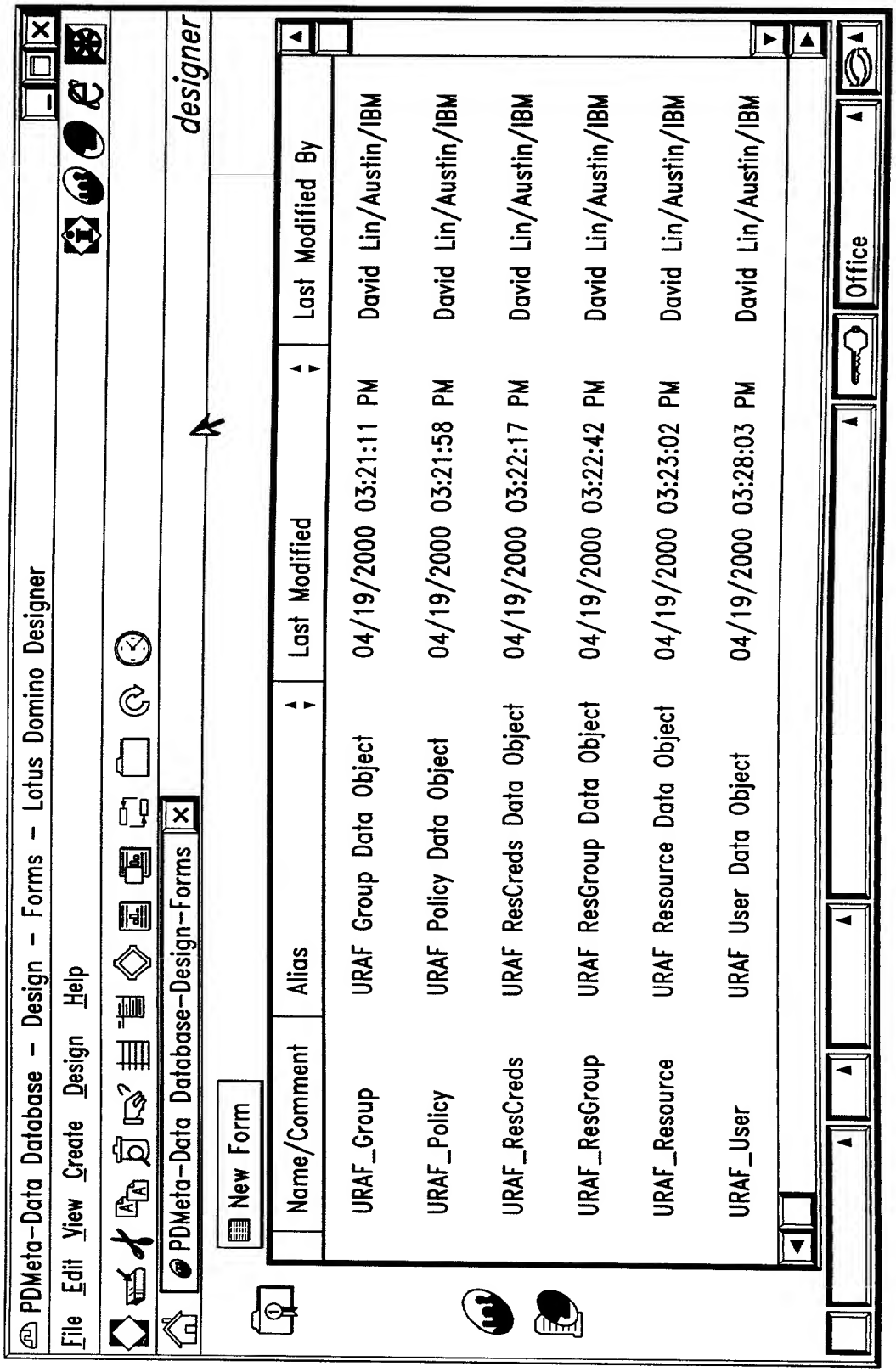

PDMeta-Data Database - Design - Forms - Lotus Domino Designer
File Edit View Create Design Help
PDMeta-Data Database-Design-Forms
designer
New Form
Name/Comment
Alias
Last Modified
Last Modified By
URAF_Group
URAF Group Data Object
04/19/2000 03:21:11 PM
David Lin/Austin/IBM
URAF_Policy
URAF Policy Data Object
04/19/2000 03:21:58 PM
David Lin/Austin/IBM
URAF_ResCreds
URAF ResCreds Data Object
04/19/2000 03:22:17 PM
David Lin/Austin/IBM
URAF_ResGroup
URAF ResGroup Data Object
04/19/2000 03:22:42 PM
David Lin/Austin/IBM
URAF_Resource
URAF Resource Data Object
04/19/2000 03:23:02 PM
David Lin/Austin/IBM
URAF_User
URAF User Data Object
04/19/2000 03:28:03 PM
David Lin/Austin/IBM
Office

FIG. 6

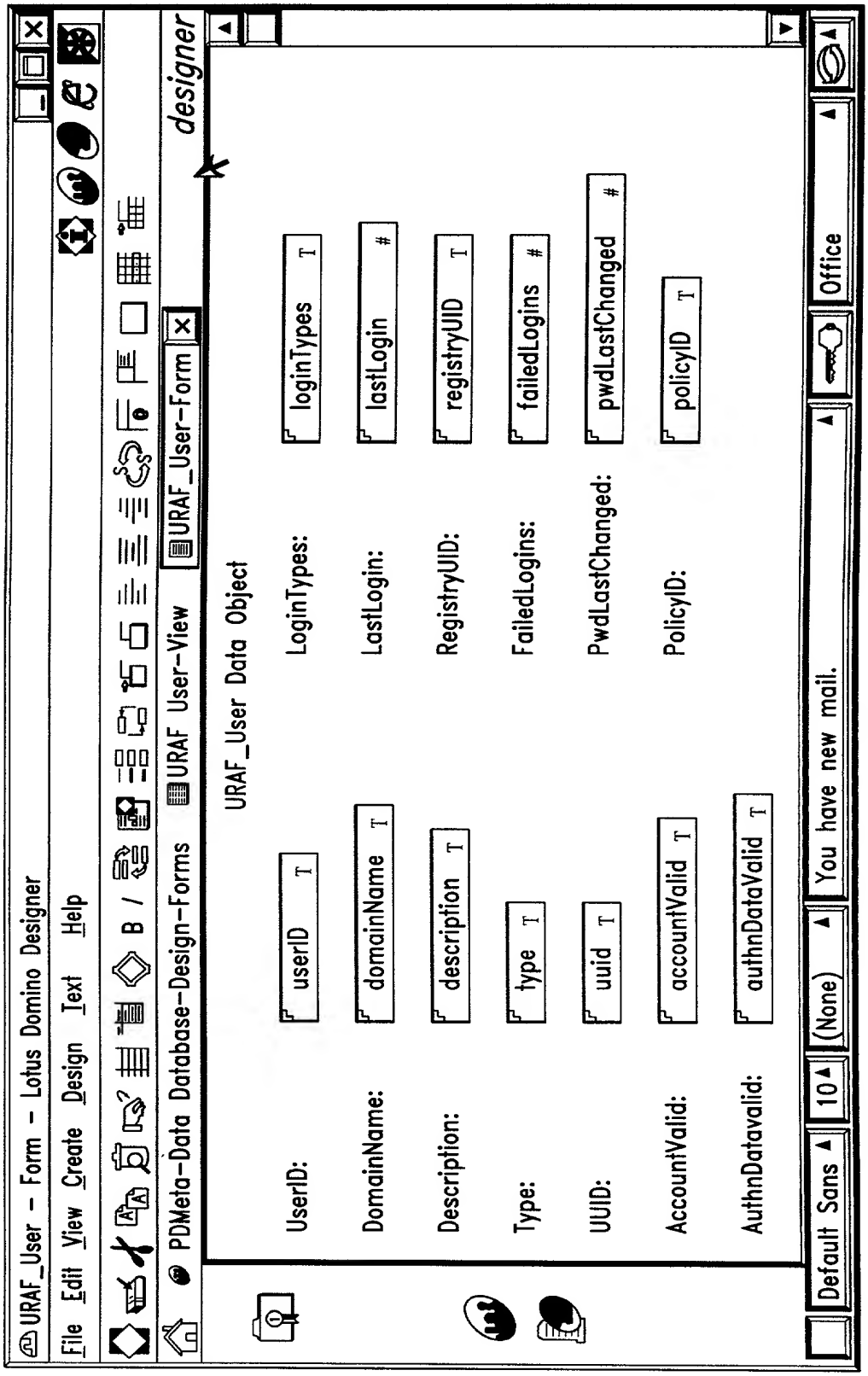

URAF_User - Form - Lotus Domino Designer
File Edit View Create Design Text Help
PDMeta-Data Database-Design-Forms
URAF User-View
URAF_User-Form
designer
URAF_User Data Object
UserID: userID T
DomainName: domainName T
Description: description T
Type: type T
UUID: uuid T
AccountValid: accountValid T
AuthnDataValid: authnDataValid T
LoginTypes: loginTypes T
LastLogin: lastLogin #
RegistryUID: registryUID T
FailedLogins: failedLogins #
PwdLastChanged: pwdLastChanged #
PolicyID: policyID T
Default Sans
10
(None)
You have new mail.
Office

FIG. 7

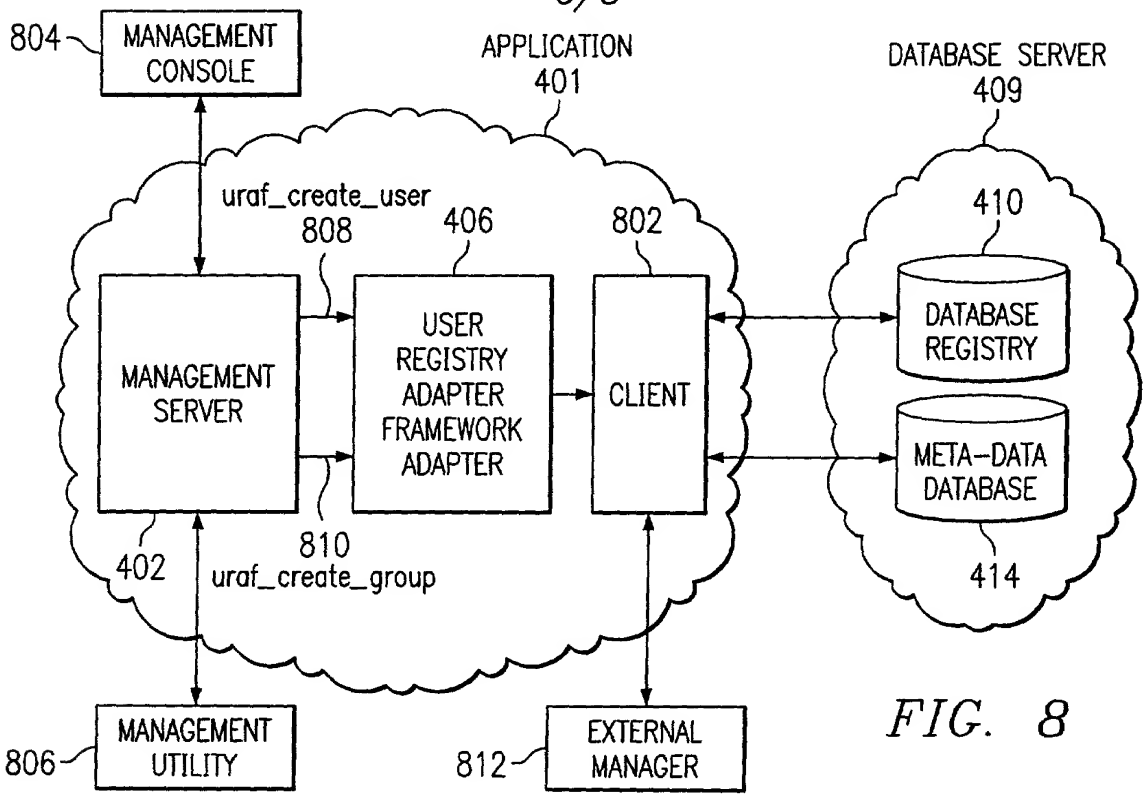

804
MANAGEMENT CONSOLE
APPLICATION
401
DATABASE SERVER
409
uraf_create_user
808
406
802
410
MANAGEMENT SERVER
USER REGISTRY ADAPTER FRAMEWORK ADAPTER
CLIENT
DATABASE REGISTRY
META-DATA DATABASE
402
810
uraf_create_group
414
806
MANAGEMENT UTILITY
812
EXTERNAL MANAGER

FIG. 8

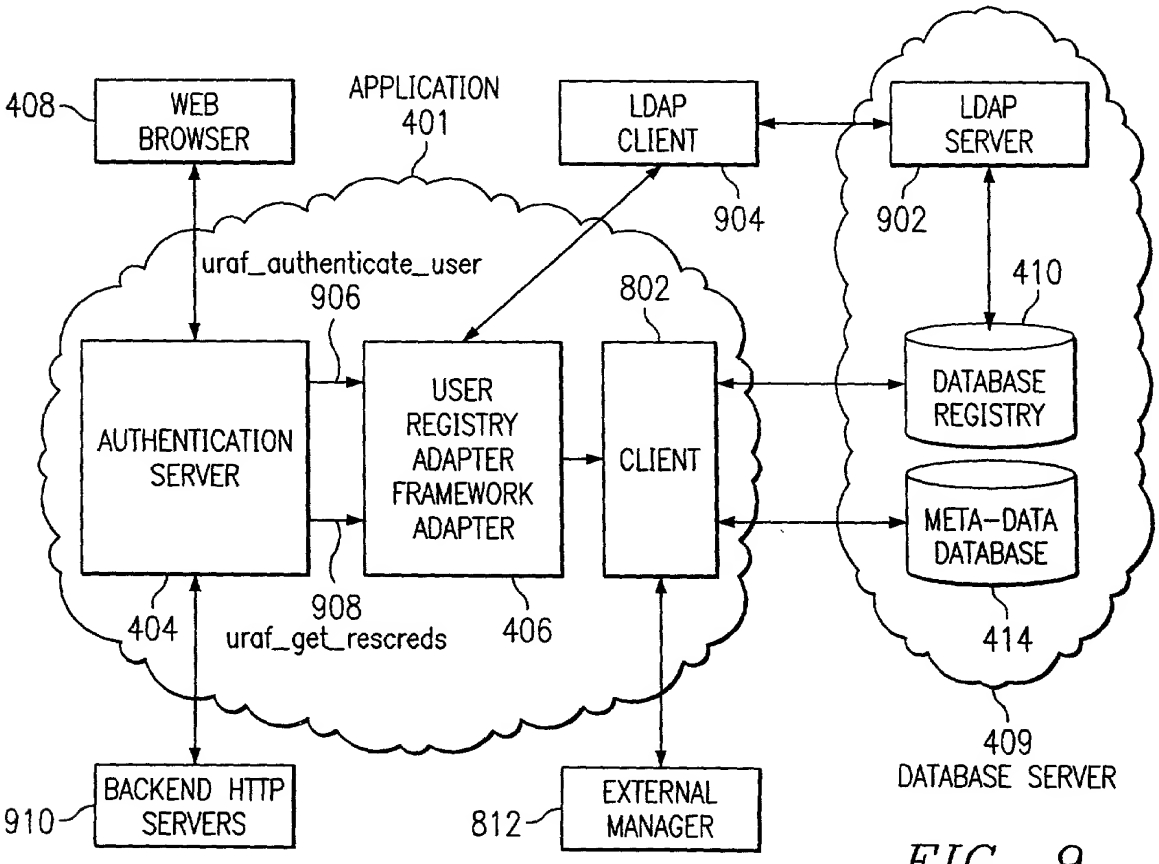

408
WEB BROWSER
APPLICATION
401
LDAP CLIENT
LDAP SERVER
904
902
uraf_authenticate_user
906
802
410
AUTHENTICATION SERVER
USER REGISTRY ADAPTER FRAMEWORK ADAPTER
CLIENT
DATABASE REGISTRY
META-DATA DATABASE
404
908
uraf_get_rescreds
406
414
409
DATABASE SERVER
910
BACKEND HTTP SERVERS
812
EXTERNAL MANAGER

FIG. 9

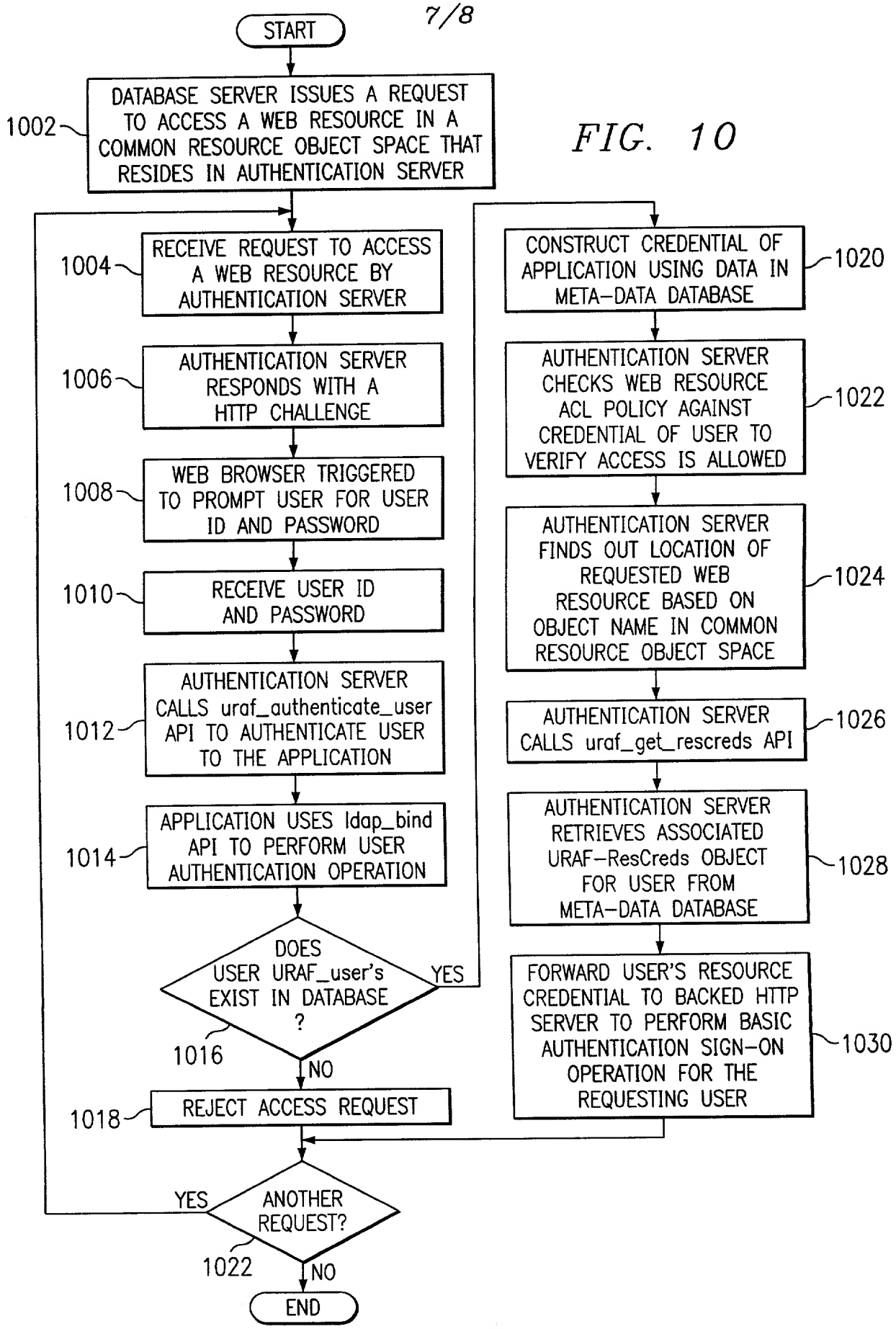

START
DATABASE SERVER ISSUES A REQUEST TO ACCESS A WEB RESOURCE IN A COMMON RESOURCE OBJECT SPACE THAT RESIDES IN AUTHENTICATION SERVER
1002
RECEIVE REQUEST TO ACCESS A WEB RESOURCE BY AUTHENTICATION SERVER
1004
AUTHENTICATION SERVER RESPONDS WITH A HTTP CHALLENGE
1006
WEB BROWSER TRIGGERED TO PROMPT USER FOR USER ID AND PASSWORD
1008
RECEIVE USER ID AND PASSWORD
1010
AUTHENTICATION SERVER CALLS uraf_authenticate_user API TO AUTHENTICATE USER TO THE APPLICATION
1012
APPLICATION USES ldap_bind API TO PERFORM USER AUTHENTICATION OPERATION
1014
DOES USER URAF_user's EXIST IN DATABASE ?
YES
NO
1016
REJECT ACCESS REQUEST
1018
CONSTRUCT CREDENTIAL OF APPLICATION USING DATA IN META-DATA DATABASE
1020
AUTHENTICATION SERVER CHECKS WEB RESOURCE ACL POLICY AGAINST CREDENTIAL OF USER TO VERIFY ACCESS IS ALLOWED
1022
AUTHENTICATION SERVER FINDS OUT LOCATION OF REQUESTED WEB RESOURCE BASED ON OBJECT NAME IN COMMON RESOURCE OBJECT SPACE
1024
AUTHENTICATION SERVER CALLS uraf_get_rescreds API
1026
AUTHENTICATION SERVER RETRIEVES ASSOCIATED URAF-ResCreds OBJECT FOR USER FROM META-DATA DATABASE
1028
FORWARD USER'S RESOURCE CREDENTIAL TO BACKED HTTP SERVER TO PERFORM BASIC AUTHENTICATION SIGN-ON OPERATION FOR THE REQUESTING USER
1030
YES
ANOTHER REQUEST?
NO
1022
END

FIG. 10

FIG. 11

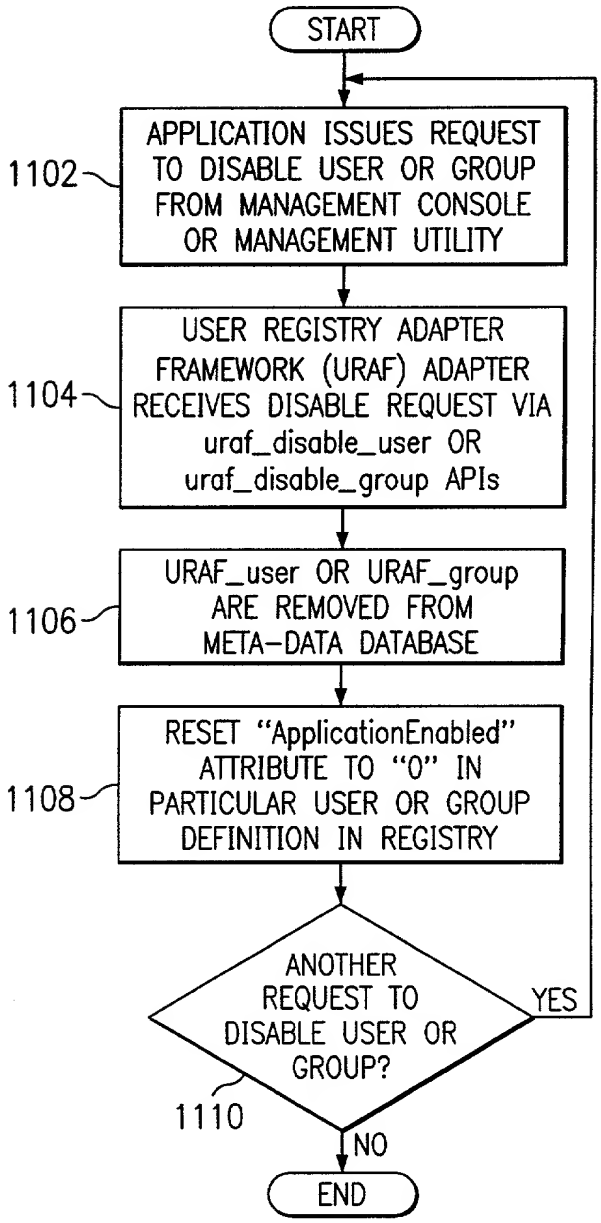
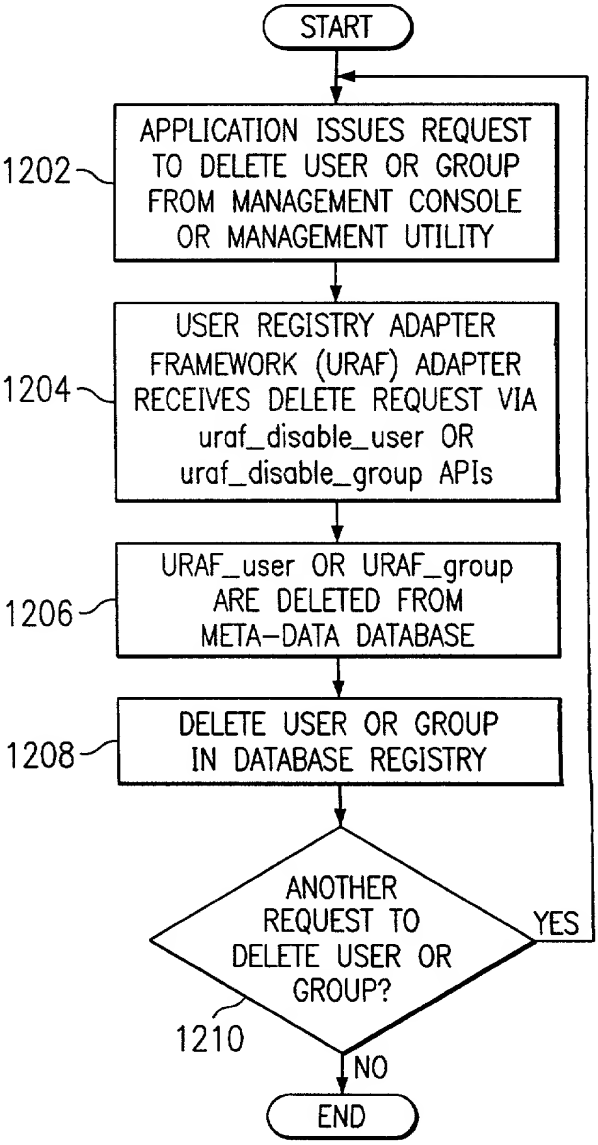

START
APPLICATION ISSUES REQUEST TO DISABLE USER OR GROUP FROM MANAGEMENT CONSOLE OR MANAGEMENT UTILITY
1102
USER REGISTRY ADAPTER FRAMEWORK (URAF) ADAPTER RECEIVES DISABLE REQUEST VIA uraf_disable_user OR uraf_disable_group APIs
1104
URAF_user OR URAF_group ARE REMOVED FROM META-DATA DATABASE
1106
RESET "ApplicationEnabled" ATTRIBUTE TO "0" IN PARTICULAR USER OR GROUP DEFINITION IN REGISTRY
1108
ANOTHER REQUEST TO DISABLE USER OR GROUP?
YES
1110
NO
END

FIG. 12


START
APPLICATION ISSUES REQUEST TO DELETE USER OR GROUP FROM MANAGEMENT CONSOLE OR MANAGEMENT UTILITY
1202
USER REGISTRY ADAPTER FRAMEWORK (URAF) ADAPTER RECEIVES DELETE REQUEST VIA uraf_disable_user OR uraf_disable_group APIs
1204
URAF_user OR URAF_group ARE DELETED FROM META-DATA DATABASE
1206
DELETE USER OR GROUP IN DATABASE REGISTRY
1208
ANOTHER REQUEST TO DELETE USER OR GROUP?
YES
1210
NO
END